RTCA Special Committee 186, Working Group 3

ADS-B 1090 MOPS, Revision A

Meeting #6

Proposed Note for TCP in DO-260A

Presented by Gary Furr

SUMMARY
At the RTCA SC-186 Plenary in June 2000 when the draft of the 1090 MHz MOPS was being reviewed, Captain Bob Hilb presented a comment against section 2.2.3.2.7.1.4 indicating that it was not clear what the TCP Valid Flag accomplished. As a result of this comment and the following Plenary discussion, the TCP Valid Flag was set to zero in the initial version of DO-260. All remaining TCP/TCP+1 text throughout the document was left in total, except for the minor changes in the test procedure for section 2.4.3.2.7.1.4. This proposed "Note" attempts to inform the reader of DO-260A of the totality of the TCP Valid Flag being set to zero.

1.0 Background

At the RTCA SC-186 Plenary in June 2000 when the draft of the 1090 MHz MOPS was being reviewed, Captain Bob Hilb presented a comment against section 2.2.3.2.7.1.4 indicating that it was not clear what the TCP Valid Flag accomplished. As a result of this comment and the following Plenary discussion, the TCP Valid Flag was set to zero in the initial version of DO-260. All remaining TCP/TCP+1 text throughout the document was left in total, except for the minor changes in the test procedure for section 2.4.3.2.7.1.4. This proposed "Note" attempts to inform the reader of DO-260A of the totality of the TCP Valid Flag being set to zero.

2.0 Proposal

It is proposed that an explanatory "Note" be added into Section 2.2.3.2.7.1 entitled "Aircraft Trajectory Intent Messages" after the Note which is already there to explain to the reader of DO-260A the "status" of TCP/TCP+1:

Note: *At the time of the adoption of DO-260, it was decided by RTCA SC-186 Plenary that insufficient information was known about Trajectory Change Points and their usage to broadcast a TCP Valid Flag set equal to one (1), indicating that the following TCP Data was "Valid," without a clear understanding of what that data represented. It was agreed that the TCP Valid Flag be set to zero (0) until the issue of TCP was resolved by changes to the ADS-B MASPS, RTCA DO-242.*

It was further agreed by the RTCA SC-186 Plenary which approved DO-260 that all remaining text in DO-260 regarding TCP and TCP+1 was to remain as written, without modification, except for the test procedure in subparagraph 2.4.3.2.7.1.4 which deals specifically with the TCP Valid Flag in subparagraph 2.2.3.2.7.1.4.

In RTCA DO-260A, no change has been made to any text related to TCP/TCP+1. As such, the TCP Valid Flag remains set to zero (0) and it is broadcast that the TCP/TCP+1 data in the messages is not valid.